U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL WEATHER SERVICE
Silver Spring, Md. 20910

MEMORANDUM FOR: All NWS Regional Headquarters, Regional Maintenance Specialists, Electronic Systems Analysts, and Electronics Technicians [Engineering Handbook (EHB)-13, Series II distribution]

FROM: W/OPS1 - John McNulty

SUBJECT: Transmittal Memorandum for EHB-13, Series II, Issuance 00-18

1. Material Transmitted:

Advanced Weather Interactive Processing System (AWIPS), Section 3.3, AWIPS Software Patch Modification Note 12, Update to AWIPS R4.3.1 Climate Program. Patch number P426_TDL_A100071R1.

2. Summary:

AWIPS Software Patch Modification Note 12 provides instructions for installing a software patch that will provide updates to the R4.3.1 climate program and repair several CLI and F6 climate product program errors.

3. Effect on Other Instructions:

None.

AWIPS SOFTWARE PATCH MODIFICATION NOTE 12 (for Electronic Systems Analysts)
OSD: Gary Battel
W/OPS12: FJZ

SUBJECT : Update to AWIPS R4.3.1 Climate Program
Patch number P426_TDL_A100071R1

PURPOSE : To provide installation instructions for patch P426_TDL_A100071R1

AFFECTED SITES : All R4.3.x sites may install this patch. Installation is optional.

VERIFICATION STATEMENT : The patch and installation procedures were tested and verified at National Weather Service Headquarters (WSH) Silver Spring, MD and at the Portland, ME (GYX), Milwaukee, WI (MKX), Dodge City, KS (DDC), Great Falls, MT (TFX), and San Angelo, TX (SJT) WFOs.

TIME REQUIRED : Approximately 10 minutes

SECURITY LEVEL : root

GENERAL

The OSD/SST developed a patch to the R4.3.x climate program. **This is not a mandatory installation.** Interested sites may download the patch form the NOAA1 server. This patch provides an update to the R4.3.1 climate program and repairs several CLI and F6 climate product program errors. For more information on the specific problems this patch addresses, read the "READ_ME.txt" file in the "~awips/climate/patch4" directory on the NOAA1 server. **After the patch is installed, it is not necessary to reinstall it after a R4.3.2 and R4.3.3 upgrade.** This patch will be included as part of Build 5.0.

NOTE:

1. A new data field (daily normal mean temperature) has been added to the database. Once the software is installed, use the "Initialize Climate Database" button on the main climate menu to launch the GUI, and to allow the import of the daily normal mean temperature. Once the software is installed, click on the "initialize Climate Database" button on the main climate menu. This launches a GUI to permit either the import of the daily normal mean temperatures from a file, or the manual entry of the daily normal mean temperatures.

2. The new "wait_times.txt" file contains values for the "DATA_WAIT_TIME" and "PRODUCT_WAIT_TIME" variables. The "wait_times.txt" file may be edited to change the default values of 20 and 10 minutes. Refer to the climate application section of the System Manager's Manual for details.

3 Before downloading the patch, ensure the climate program is not running. If it is, either perform an orderly program termination, or kill the climate processes.

The patch installation script performs the following functions:

- Original executables are backed up into the "/data/fxa/climate_backup" directory on ds1.
- The patch log ("/awips/PatchLog") on ds1 will be automatically updated.
- The "RC.sh" and "climate4.sh" scripts are retained for part B.

PROCEDURE

A. CLI Software Installation Procedure

1. On a workstation, open a telnet window and log in as **awipsusr**. Rlogin to the ds1 server as **root** by typing:

   `rlogin ds1 -l root`

2. Change to the "/awips/adapt" directory by typing:

   `cd /awips/adapt`

3. Check for the existence of the "install" subdirectory by typing:

   `ll`

4. If the “install” directory does not exist, create it by typing:

   `mkdir install`

5. Change to the “install” directory by typing:

   `cd install`

6. Connect to the NOAA1 ftp server by typing:

   `ftp 165.92.30.15`

7. Once connected, log in as **ftp** user with the **4Awips!** password.

8. Get the “cli_update4.tar” file by typing:

   ```
   binary
   hash
   cd /awips/climate/patch4
   get cli_update4.tar
   bye
   ```

9. Unbundle the “cli_update4.tar” file to obtain four installation script files (“climate4.sh”, “RC.sh”, “updatehmdb433cli.sh”, and “undohmdb433cli.sh”), a patch ID (“PatchID”) file, a product and data wait times (“wait_times.txt”) file, and a bundled executable file (“climate_bin_patch4.tar.Z”) by typing:

   `tar xvf cli_update4.tar`

NOTE:	It is **not** necessary to call the NCF before performing the next step.

10. Install the new files on ds1 and update the patch log file (“/awips/PatchLog”) by typing:

    `./RC.sh -i PatchID climate4.sh`

11. Respond to the following question to install/uninstall the script:

    Are you ready to run the patch install/uninstall script? [y/n]
    Action: To proceed, please enter: **y** and a carriage return.

12. After the install/uninstall script (“climate4.sh”) is complete, answer the following questions:

    a. Do you wish to proceed with the patch log update? [y/n]
    Action: To proceed, please enter: **y** and a carriage return.
    b. Please enter your name [Example: John Doe]:
    Action: enter your name.

    c. Please enter your telephone number (with area code and ext):
    Action: enter your phone number.

    d. Do you wish to update patch log with this line? [y/n]
    Action: To complete the patch log update, enter: **y** and a carriage return.

13. Exit the **root** login and close the telnet window by typing:

    ```
    exit
    exit
    ```

This completes the patch installation procedure.

B. Patch Uninstall Procedure

Perform this part of the procedure **only** if the patch must be **uninstalled** and replaced with the original executables and files.

1. Open a telnet window, log in to ds1 as **root**, change directory, and run the uninstall script by typing:

    ```
    rlogin ds1 -l root

    cd /awips/adapt/install

    ./RC.sh -r PatchID climate4.sh
    ```

2. Respond to the following questions as indicated:

    a. Do you wish to continue? [y/n]
    Action: To proceed, please enter: **y** and a carriage return.

    b. Do you wish to proceed with the patch log update? [y/n]
    Action: To proceed, please enter: **y** and a carriage return.

    c. Please enter your name [Example: John Doe]:
    Action: enter your name.

d. Please enter your telephone number (with area code and ext):
Action: enter your phone number.

e. Do you wish to update patch log with this line? [y/n]
Action: To complete the patch log update, enter: **y** and a carriage return.

This completes the patch uninstallation procedure.

REPORTING MODIFICATION

Report the completed modification on a WS Form A-26 Maintenance Record, according to instructions in Engineering Handbook 4 (EHB-4), part 2, and appendix H. A sample A-26 form is attached. As an additional guide, use the information in the table below.

Block #	Block Type	Information
5	Description	Perform Modification I.A.W. Software Patch Modification Note 12
7	Equipment Code	AWIPS
8	Serial Number	001
15	Comments	Upgrade System Software with patch P426_TDL_A100071R1
17a	Mod. No.	SP12

TECHNICAL SUPPORT

For questions or problems regarding these installation instructions or running the climate program, please contact Gary Battel of the AWIPS Site Support Team at 301-713-0056 ext 194.

John McNulty
Chief, Maintenance, Logistics, and Acquisition Division

WS FORM A-26 (4/94)

WS FORM A-26 (4/94)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL WEATHER SERVICE

ENGINEERING MANAGEMENT REPORTING SYSTEM
MAINTENANCE RECORD

Document Number: **G 49978**

General Information	**1.** Open Date: **10 / 20 / 00**	Time: **0900**	**2.** Initials: **JMM**	**3.** Response Priority (check one): ○ Immediate ○ Low ○ Routine ☒ Not Applicable	**4.** Close Date: **10 / 20 / 00**	Time: **1000**

5. Description

Perform Modification I.A.W. AWIPS Software Patch Mod Note 12

Equipment Information	**6.** Station ID	**7.** Equipment Code	**8.** Serial Number	**9.** TM	**10.** AT	**11.** How Mal.
	CTP	**AWIPS**	**001**	**M**	**M**	**999**

12. ***EQUIPMENT OPERATIONAL STATUS TIMES***	**a. Fully Operational**	**b.** Logistics Delay	**Partly Operational**	**c.** All Other	**d.** Logistics Delay	**Not Operational**	**e.** All Other

13. ***Parts Failure Information***

Block #	a. ASN	b. NSN	c. TM	d. AT	e. How Mal.	f. Qty.	g. Maint. Hrs.
1							
2							
3							
4							
5							

14. ***Work Load Information***

Type	Staff Hrs.
a. Routine	
b. Non-routine	
c. Travel	
d. Misc.	**1:00**
e. Overtime	

Miscellaneous Information	**15.** Maintenance Comments	**16.** Initials
	Update AWIPS System software with R.4.3.1 Climate Program, Patch Number P426_TDL_A100071R1	**JMM**

17. ***SPECIAL PURPOSE REPORTING***	**a.** Mod. No.	**b.** Mod./Act./Deact.Date	**c.**	**d.**	**e.**
	SP12				

18. ***CONFIGURATION MGMT. REPORTING*** *(use as directed)*	**ASN**	Vendor Part Number (New Part)	Serial Number (Old Part)	Serial Number (New Part)

Sample